

32. The cell of Claim 31, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell, an insect cell, and a plant cell.
33. A transgenic plant comprising the polynucleotide of Claim 25.
34. A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim 25.
35. A method for producing a transgenic plant comprising (a) transforming a plant cell with the polynucleotide of Claim 25, and (b) regenerating a plant from the transformed plant cell.
36. An isolated 1-deoxy-D-xylulose 5-phosphate reductoisomerase polypeptide having a sequence selected from the group consisting of SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14, 16, 18, and 20.
37. A chimeric gene comprising the polynucleotide of Claim 25 operably linked to at least one suitable regulatory sequence.
38. The chimeric gene of Claim 37, wherein the chimeric gene is an expression vector.
39. A method for altering the level of plant 1-deoxy-D-xylulose 5-phosphate reductoisomerase polypeptide expression in a host cell, the method comprising:
 - (a) Transforming a host cell with the chimeric gene of claim 37; and
 - (b) Growing the transformed cell in step (a) under conditions suitable for the expression of the chimeric gene. --